

## CONTENTS OF VOLUME 27

### *Numbers 1 & 2*

Safety Analysis and Evaluation Methodology for Fusion Systems . . . . .	1
Y. FUJII-E, Y. KOZAWA, C. NAMBA, O. KONISHI, M. NISHIKAWA, T. YANO, I. YANAGISAWA, S. KOTAKE, T. SAWADA, T. MIZUSHINA & T. SUZUKI (Japan)	

### *Number 3*

In-Sodium Thermal Striping Tests on Candidate Materials for Use in Liquid Metal Reactors . . . . .	169
A. E. LEVIN, K. R. JAQUAY (USA) & N. TANAKA (Japan)	
Fluid-Structure Interaction and Buckling of Hemispherical Shells . . . . .	189
MASSIMO GUIGGIANI (Italy)	
The Influence of the Strain-Rate History on the Stress–Strain Diagram of AISI 316H at High Temperatures . . . . .	233
C. ALBERTINI, (Italy) A. M. ELEICHE (Egypt) & M. MONTAGNANI (Italy)	
A Study of the Behaviour of Stainless Steel Type 316 Under Bree Type Loading at Elevated Temperatures—Some Experimental Results and Comparison with Design Rules . . . . .	247
D. J. BROOKFIELD & D. N. MORETON (UK)	
Theoretical and Experimental Study of Fracture for a Damaged Solid . . . . .	259
ANDRZEJ LITEWKA & JOANNA MORZYŃSKA (Poland)	

### *Number 4*

A Review of Some Empirical Equations for High Strain Rate Behaviour . . . . .	273
J. RICHARDS & R. J. TINKLER (UK)	
High Strain Fatigue Crack Growth in Nickel-base Alloys . . . . .	285
N. J. MARCHAND & R. M. PELLOUX (USA)	
Specific Strain Work as both Failure Criterion and Material Damage Measure . . . . .	309
RYSZARD ZUCHOWSKI (Poland)	

365

Creep-Fatigue Interaction on Small Mock-ups Submitted to Thermal Shocks and Primary Stresses . . . . .	323
M. T. CABRILLAT, J. L. CARBONNIER & G. CORDIER (France)	
Elasto/Visco-Plastic Analysis of Orthotropic Moderately Thick Shells of Revolution . . . . .	335
SHIGEO TAKEZONO, KATSUMI TAO & SUGURU NAGANO (Japan)	
Modelling of Prestressed Non-metallic Media via Objective Constitutive Equations . . . . .	353
WITOLD KOSINSKI (Poland)	

